

~~180~~ Fish Hawk  
Chesapeake Bay  
1809 1892-1893  
to  
1828

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1809 to 1828



1809 S E X E Plantation Flats

N E Cherry stone St No

Ship's Head S W X S

---

1810

Ship's Head N W  $\frac{1}{2}$  W

Q P Flat S E  $\frac{1}{2}$  E ✓

Cherry stone E N E

---

1811

Ship's Head N W  $\frac{1}{2}$  W

New Point S W X W

Wedge Leap N W X N

---

1812

Ship's Head E X N  $\frac{1}{2}$  N

W m Pt N E X N ✓

Sting in W X S

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# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1809

Date, November 8<sup>th</sup> 1892

Time of day, 7.20 AM; of tide, Flood

Locality, Chesapeake Bay

Exact position, Annapolis Lt No SE &amp; E 1/4 miles

Cherry Point Lt No SE 1/4 E 2 1/8

Depth, 13 fms

Nature of bottom, Sticky

Dredging instrument used, 7<sup>th</sup> Beam Trawl

Direction of drift, E x S; distance, 1/8 mile

Temperature of air, 60

therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, 10.200

temp., 53

" at depth of fathoms,

" at bottom, 10.220

" 54

Number of salinometer,

Barometer reading, 30.18

State of sky, Bland

Direction of wind, S W; force, 3

Rain,

Direction of surface current,; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer,

Robert Platt Lt Zou

Name and position of observer,

J. M. Lighton  
Master

NOTES RELATING TO STATION NO. 1809

Scallops Flounders  
1 starfish Blue crabs Hermit  
crabs

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1810

Date, November 8<sup>th</sup> 1892

Time of day, 9.45 Am of tide, Flood

Locality, Chesapeake Bay

Exact position,  $\frac{1}{2}$  mile S.W. of Red

Boat No 8

Depth, 24 fms

Nature of bottom, Sand

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, S x E ; distance,  $\frac{1}{8}$  mile

Temperature of air, 60 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10200 temp., 54

" at depth of fathoms, "

" at bottom, 1021.6 " 58

Number of salinometer,

Barometer reading, 30.18

State of sky, Cloudy

Direction of wind, S.W. ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Hawk

Service to which attached, U.S. Comm

Name and rank of commanding officer,

Robert Platt Lt. U.S.N.

Name and position of observer,

J. M. Knight  
Master

NOTES RELATING TO STATION NO. 1610

Hog chicken crabs, <sup>2 no kinds of</sup> Star fish  
Semakura Whiting 12 young trout  
Crabs = *Neptunus gibberii*

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1871

Date, November 8<sup>th</sup> 1892Time of day, 11.04<sup>Am</sup>; of tide, Flood

Locality, Chesapeake Bay

Exact position, New Pt SE Ho R  $\frac{1}{8}$  S  $\frac{5}{4}$  milesHalf Trap SE Ho R  $\frac{1}{8}$  S  $\frac{5}{4}$  miles

Depth, 16 fms

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, SE W; distance,  $\frac{1}{8}$  mile

Temperature of air, 66 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.0182 temp., 58

" at depth of fathoms, "

" at bottom, 1.0194 " 58

Number of salinometer,

Barometer reading, 30.18

State of sky, Cloudy

Direction of wind, SE W; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, USFV Ste Fish Hawk

Service to which attached, USFV Com

Name and rank of commanding officer,

Robert Plate Lt USN

Name and position of observer,

J. M. G. Smith USN



NOTES RELATING TO STATION NO. 1811

Spent whiting, flounders  
young croaker, 1 Trout

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1812*  
 Date, *November 8<sup>th</sup> 1892*  
 Time of day, *1 P.M.* ; of tide, *High*  
 Locality, *Chesapeake Bay*  
 Exact position, *1/2 mile N.E. 7/8 E. of Stingray Pt.*  
*to No*  
 Depth, *4 fms 5 feet*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam trawl*  
 Direction of drift, *SE* ; distance, *1/8 mile*  
 Temperature of air, *64* therm. No.,  
     " of surface water, "  
     " at depth of fathoms, "  
     " at bottom, "  
 Density at surface, *10162* temp., *57*  
     " at depth of fathoms, "  
     " at bottom, *10164* " *59*  
 Number of salinometer,  
 Barometer reading, *30.18*  
 State of sky, *Cloudy*  
 Direction of wind, *NE* ; force, *3*  
 Rain,  
 Direction of surface current, ; force,  
     " of bottom " ; force,  
 Name of vessel, *U.S.F.C. Fish Hawk*  
 Service to which attached, *U.S.F. Comm*  
 Name and rank of commanding officer,  
*Robert Platt Lt U.S.N.*  
 Name and position of observer,  
*William Lightner*  
*Master USN*

NOTES RELATING TO STATION NO. 1112

About two dozen small spots  
Glaucous - white, 1 small white

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1823*  
 Date, *Jan 10*  
 Time of day, *11:30* ; of tide, *Flood*  
 Locality, *Lehigh River Bay*  
 Exact position,  
*1 1/2 miles N.E. & N. of Smiths Pt. St. Ho*  
 Depth, *10 fms 2 ft*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *B V*  
 Direction of drift, *SE* ; distance, *1/4 mile*  
 Temperature of air, *44* thermo. No.,  
 " of surface water, "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1015.4* temp., *56*  
 " at depth of fathoms, "  
 " at bottom, *1015.8* " *54*  
 Number of salinometer,  
 Barometer reading, *29.96*  
 State of sky, *Cloudy*  
 Direction of wind, *W* ; force, *4*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U.S. Fish Hawk*  
 Service to which attached, *U.S. Fish*  
 Name and rank of commanding officer,  
*Robert M. St. John*  
 Name and position of observer,  
*W. H. ...*

NOTES RELATING TO STATION NO. 1813

Flamingo Cove  
Hog Island

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. *1814*  
 Date, *March 20 1893*  
 Time of day, *11:40 AM*; of tide, *High Water*  
 Locality, *Mouth of Chesapeake Bay*  
 Exact position, *2 1/2 miles S. of Cape Henry*  
 Depth, *13 fms*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam trawl*  
 Direction of drift, *NE*; distance, *1/2 mile*  
 Temperature of air, *52* therm. No.,  
 " of surface water, *42* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.0192* temp., *42*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.1*  
 State of sky, *B. Clear*  
 Direction of wind, *North*; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U.S.F.C. Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *Robert H. ...*  
*Lt. U.S.N.*  
 Name and position of observer, *J. ...*  
*Master*

NOTES RELATING TO STATION NO. *416*

*Blue f. to top of section  
and below was seen  
some blue granite*

# RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *1815*  
 Date, *March 20th 1883*  
 Time of day, *11.40 Am*; of tide, *High Tide*  
 Locality, *North Chesapeake Bay*  
 Exact position, *Looking S. Ho from Sta 88*  
*about 1 1/2 miles*  
 Depth, *13 fms 2 feet*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Long Dredge*  
 Direction of drift, *S x W 1/2 W*; distance, *1/4 mile*  
 Temperature of air, *58* therm. No.,  
 " of surface water, *43* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.019.2* temp., *43*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.2*  
 State of sky, *B. Clear*  
 Direction of wind, *North*; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U. S. Fish Hawk*  
 Service to which attached, *U. S. F. C.*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut - U. S. N.*  
 Name and position of observer, *W. H. H. H.*  
*Master*



NOTES RELATING TO STATION NO. 18.

Found 4 small  
flowers on grassy slope  
behind

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1816

Date, March 2, 1893

Time of day, 10:30 AM ; of tide, ebb

Locality, Mouth of Chesapeake Bay

Exact position, Cape Henry S S E

Distance 1 1/2 miles

Depth, 11 fms

Nature of bottom, sand

Dredging instrument used, Beam Trawl

Direction of drift, S S E ; distance, 1/4 mile

Temperature of air, 59 therm. No.,

" of surface water, 43 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1018.6 temp., 43

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.415

State of sky, B Clear

Direction of wind, North ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U S F C Steamer Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, Robert Platt

Lieut. U S F C

Name and position of observer,

J. L. Thompson  
Master

NOTES RELATING TO STATION NO. 111

Skate, 7/11/11  
5 fish, brown, skate eggs  
Grass

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1817*  
 Date, *March 20<sup>th</sup> 1873*  
 Time of day, *12.50 P.M.*; of tide, *Ebb*  
 Locality, *Mouth of Chesapeake Bay*  
 Exact position, *Cape Henry E & S 3 miles*  
*Sydney Bay S & W 1 1/2 miles*  
 Depth, *4 fms 5 ft*  
 Nature of bottom, *Hard*  
 Dredging instrument used, *Beam trawl*  
 Direction of drift, *E & N* ; distance, *1/2 mile*  
 Temperature of air, *61* therm. No.,  
 " of surface water, *44* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.0174* temp., *44*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.4*  
 State of sky, *Clear*  
 Direction of wind, *North* ; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U.S.F.C. Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *Robert H. ...*  
*Ensign U.S.N.*  
 Name and position of observer, *John H. ...*  
*Master*

NOTES RELATING TO STATION NO.

167

The fish group in  
2. In the same group

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1817*Date, *March 20<sup>th</sup> 1873*Time of day, *1.30 PM*; of tide, *ebb*Locality, *off Cape Cod Bay*Exact position, *Sigbee's station, three E & E**1/2 miles from Cape Cod Bay E & E 6 miles*Depth, *4.5*Nature of bottom, *fine sand*Dredging instrument used, *Beam trawl*Direction of drift, *E & S*; distance, *1/4 mile*Temperature of air, *52* therm. No.," of surface water, *43* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1.0225* temp., *48.5*

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.715*State of sky, *b, c, r*Direction of wind, *from*; force, *2*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *U. S. Fish Hawk*Service to which attached, *U. S. F.*Name and rank of commanding officer, *Robert H. St.**Lieut. U. S. N.*

Name and position of observer,

*J. H. Smith  
Master*

NOTES RELATING TO STATION NO.

118

Sample from the bottom of the  
pond

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1819

Date, March 20th 1893

Time of day, 2.38 P.M.; of tide, ebb

Locality, Chesapeake Bay

Exact position, Fort Mifflin at 15 1/2 miles

Thimble Shoar at 15 miles

Depth, 4.1

Nature of bottom, sticky

Dredging instrument used, beam trawl

Direction of drift, S X E ; distance, 1/2 mile

Temperature of air, 63 therm. No.,

" of surface water, 42 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1.016, 6 temp., 44

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.41

State of sky, clear

Direction of wind, S.W. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C. Steamer Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robert M. Smith

Name and position of observer,



NOTES RELATING TO STATION NO.

1819

Auto. Head Lamp on  
Sund. 10/10/1919

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No.

820

Date,

March 20, 1872

Time of day,

2.50 PM ; of tide, ebb

Locality,

Chesapeake Bay

Exact position.

Fort Mifflin <sup>1/2</sup> mile

Thence East No. 100 to 3 3/8 miles

Depth,

3, 2

Nature of bottom,

Hard

Dredging instrument used,

Beam Trawl

Direction of drift,

N. 1/2 E. ; distance, 1/8 mile

Temperature of air,

52

therm. No.,

"

of surface water, 44

"

"

at depth of fathoms,

"

"

at bottom,

"

Density at surface,

1.016

temp.,

44

"

at depth of fathoms,

"

"

at bottom,

"

Number of salinometer,

Barometer reading,

30.01

State of sky,

clear

Direction of wind,

North ; force, 2

Rain.

Direction of surface current,

; force,

"

of bottom "

; force,

Name of vessel,

U. S. Fish Commission

Service to which attached,

U. S. Fish Commission

Name and rank of commanding officer,

Robert P. ...

Name and position of observer,

J. M. ...

NOTES RELATING TO STATION NO. 1510

Small hole  
in bottom of pond

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. *18*  
 Date, *March 20th 1893*  
 Time of day, *3, 18 PM* ; of tide, *Ebb*  
 Locality, *Thimble Pt 1/2 W 1 1/2 miles*  
 Exact position, *Thimble St Pt 1/2 W 1 1/2 miles*  
*Four miles N 1/2 S 2 1/2 miles*  
 Depth, *3 fathoms*  
 Nature of bottom, *Slimy*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *S by E* ; distance, *1/2 mile*  
 Temperature of air, *62* therm. No.,  
 " of surface water, *48.5* "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.016* temp., *50.0*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *30.41*  
 State of sky, *Clear*  
 Direction of wind, *North* ; force, *2*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " : force,  
 Name of vessel, *U.S. Fish Hawk*  
 Service to which attached, *U.S. Fish*  
 Name and rank of commanding officer, *Robert Platt*  
*Lieut. U.S.N.*  
 Name and position of observer, *John S. ...*  
*Master*

NOTES RELATING TO STATION NO. 1631

2. *Microbathus* *small*

*forms and different kinds*  
*of process*

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1822*Date, *March 21 1893*Time of day, *9:06 AM*; of tide, *Flood*Locality, *Chesapeake Bay*Exact position, *Phantom Shoal 5 1/2 miles**1 1/4 miles from shore S.W. + 1/2 E 2 1/4 miles*Depth, *15, 1*Nature of bottom, *Soft*Dredging instrument used, *Long beam*Direction of drift, *E x S*; distance, *1 mile*Temperature of air, *59* therm. No.," of surface water, *42.5* "

" at depth of fathoms, "

" at bottom, "

Density at surface, *1.0184* temp., *52.5*

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, *30.23*State of sky, *Cloudy*Direction of wind, *SSE*; force, *2*

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, *U.S.C. Fish Hawk*Service to which attached, *U.S.F.C.*Name and rank of commanding officer, *Robert Smith*Name and position of observer, *John H. ...*

NOTES RELATING TO STATION NO. 35

1. *Hydrophyllum* *virgatum* L.  
2. *Hydrophyllum* *virgatum* L.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. 1823  
 Date, March 2 1893  
 Time of day, 12:20 PM; of tide, Flood  
 Locality, Chesapeake Bay  
 Exact position, 2 miles SSW of 178  
 Depth, 26 fms  
 Nature of bottom, Sand  
 Dredging instrument used, Dredge  
 Direction of drift, SSW; distance, 1/2 mile  
 Temperature of air, 51 therm. No.,  
 " of surface water, 41 "  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, 1.0184 temp., 41  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading,  
 State of sky, Cloudy, drizzling rain  
 Direction of wind, SSE; force, 2  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, U.S.F.C. Fish Hawk  
 Service to which attached, U.S.F.C.  
 Name and rank of commanding officer, Robert B. Smith  
 Name and position of observer,



NOTES RELATING TO STATION NO. 1823

Large Take starfish  
Winkles, Hermit Crabs  
Sea Cucumber, Pecten shell  
with Coral on same, Shrimp  
Spider Crabs

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1824*Date, *March 1st 1882*Time of day, *10.56 AM*; of tide, *Low*Locality, *Chesapeake Bay*Exact position, *Plantation Harbor SE  $10\frac{7}{8}$  miles**Cherry stone cove NE  $17\frac{1}{8}$  miles*Depth, *23*Nature of bottom, *Hard*Dredging instrument used, *Beam trawl*Direction of drift, *E  $\frac{1}{2}$  N*; distance, *74 miles*Temperature of air, *51* therm. No.," of surface water, *41*

" at depth of fathoms.

" at bottom,

Density at surface, *2018.4* temp., *41*

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading, *30.22*State of sky, *Cloudy Drizzling rain*Direction of wind, *SSW*; force, *—*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *U.S. Fish Com. 26176*Service to which attached, *U.S. Fish Com.*Name and rank of commanding officer, *Robert B. Pratt**Lieut. 2652*

Name and position of observer,

*Frederick C. Mearns*

NOTES RELATING TO STATION NO. 1824

Nothing but corn very badly

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1825

Date, March 21<sup>st</sup> 1893

Time of day, 11:33<sup>AM</sup>; of tide, Flood

Locality, Chesapeake Bay

Exact position, Cranston Hat Cove 88 1/2° E 1 1/2

Miles Hampton Cove 4 E X E 2 1/4 miles

Depth, 18.5

Nature of bottom, Muddy

Dredging instrument used, Oyster dredge

Direction of drift, S. by E.; distance, 1 mile

Temperature of air, 51 therm. No.,

" of surface water, 41 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1018.8 temp., 41

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 30.22

State of sky, Cloudy Drizzling rain

Direction of wind, S. by E.; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C. Ste Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, Robert Plate

Lieut. U.S.N.

Name and position of observer,

Underington

Master

NOTES RELATING TO STATION NO. 1125

*See Cucumbers Mud*

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1886  
 Date, March 24/1893  
 Time of day, 1.03 PM : of tide, Flood  
 Locality, Hobjacket Bay  
 Exact position, New Pt. York W 3/4 mile  
 Linkage No.  
 Depth, 4.3  
 Nature of bottom, Sand  
 Dredging instrument used, Beam Trawl  
 Direction of drift, E 1/2 N ; distance, 1/4 mile  
 Temperature of air, 63 therm. No..  
 " of surface water, 42  
 " at depth of fathoms,  
 " at bottom,  
 Density at surface, 1.0156 temp., 42  
 " at depth of fathoms,  
 " at bottom,  
 Number of salinometer,  
 Barometer reading, 29.87  
 State of sky, Bk  
 Direction of wind, South ; force, 3  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, U.S.F.C. Ste. Fish Hawk  
 Service to which attached, U.S.F.C.  
 Name and rank of commanding officer, Robert Hall  
 Lieut. U.S.N.  
 Name and position of observer,  
 Dr. J. H. Brown  
 Master

NOTES RELATING TO STATION NO. 1826

Revised bottom is shrimp

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1827*  
 Date, *March 24 1876*  
 Time of day, *3.04 PM* : of tide, *Flood*  
 Locality, *Chesapeake Bay*  
 Exact position, *Stingray Pt. S. 1/2 N. 1/2 W. 1/2 S. 1/2 E.*  
*Windmill Pt. S. 1/2 N. 1/2 W. 1/2 S. 1/2 E. 4 1/2 miles*  
 Depth, *4 1/2*  
 Nature of bottom, *Sticks*  
 Dredging instrument used, *Beam Trawl*  
 Direction of drift, *E. 1/2 S.* : distance, *1/8 mile*  
 Temperature of air, *63* therm. No.,  
 " of surface water, *42*  
 " at depth of fathoms, "  
 " at bottom, "  
 Density at surface, *1.0140* temp., *42*  
 " at depth of fathoms, "  
 " at bottom, "  
 Number of salinometer,  
 Barometer reading, *29.82*  
 State of sky, *Cloudy*  
 Direction of wind, *East* ; force, *4*  
 Rain,  
 Direction of surface current, ; force,  
 " of bottom " ; force,  
 Name of vessel, *U.S. Fish Hawk*  
 Service to which attached, *U.S.F.C.*  
 Name and rank of commanding officer, *Robert Platt*  
*Comdr. U.S.N.*  
 Name and position of observer, *John L. Thompson*  
*U.S.N.*



NOTES RELATING TO STATION NO. 1837

1. 100 small crabs / shells  
2. large crabs dead

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1828

Date, March 24<sup>th</sup> 1893

Time of day, 3.38 P.M.; of tide, Flood

Locality, Chesapeake Bay

Exact position, Stringer Pt. S. 1/4 Sec. 10, T. 2 N., R. 12 W., 1/2 mile

Triner mill Pt. S. 1/4 Sec. 10, T. 2 N., R. 12 W., 2 1/2 miles

Depth, 4.2

Nature of bottom, Hard

Dredging instrument used, Beam Trawl

Direction of drift, N. 64 E. : distance, 1/8 mile

Temperature of air, 62 therm. No.,

" of surface water, 42 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 10140 temp., 42

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading, 29.82

State of sky, Cloudy

Direction of wind, South ; force, 14

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, U.S. Fish Com. Steamer Fish Hawk

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, Robert S. Allen, Lt. Comdr. U.S.N.

Lieut. Allen

Name and position of observer,

Proctor  
H. S. G. S.

NOTES RELATING TO STATION NO. 1828

A few oysters shrimp. rose  
sea weed.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1819

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used.

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky.

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. \_\_\_\_\_

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_



NOTES RELATING TO STATION NO.

# RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide.

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

“ of surface water, \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading. \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

“ of bottom “ \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

\* Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

# RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

“ of surface water, \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

“ of bottom “ \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_



NOTES RELATING TO STATION NO. \_\_\_\_\_

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO. \_\_\_\_\_

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

“ of surface water, \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

“ of bottom “ \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

# RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

“ of surface water, \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

“ of bottom “ \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

# RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_  
 Date, \_\_\_\_\_  
 Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_  
 Locality, \_\_\_\_\_  
 Exact position, \_\_\_\_\_  
 Depth, \_\_\_\_\_  
 Nature of bottom, \_\_\_\_\_  
 Dredging instrument used, \_\_\_\_\_  
 Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_  
 Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_  
     " of surface water, \_\_\_\_\_  
     " at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_  
     " at bottom, \_\_\_\_\_  
 Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_  
     " at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_  
     " at bottom, \_\_\_\_\_  
 Number of salinometer, \_\_\_\_\_  
 Barometer reading, \_\_\_\_\_  
 State of sky, \_\_\_\_\_  
 Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_  
 Rain, \_\_\_\_\_  
 Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_  
     " of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_  
 Name of vessel, \_\_\_\_\_  
 Service to which attached, \_\_\_\_\_  
 Name and rank of commanding officer, \_\_\_\_\_  
 Name and position of observer, \_\_\_\_\_



NOTES RELATING TO STATION NO.

# RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force.

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_ "

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_ "

" at bottom, \_\_\_\_\_ "

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_ "

" at bottom, \_\_\_\_\_ "

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_ "

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_ "

" at bottom, \_\_\_\_\_ "

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_ "

" at bottom, \_\_\_\_\_ "

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO. \_\_\_\_\_

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_



NOTES RELATING TO STATION NO.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO. \_\_\_\_\_

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

Date.

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. \_\_\_\_\_

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. \_\_\_\_\_

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_ "

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_ "

" at bottom, \_\_\_\_\_ "

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_ "

" at bottom, \_\_\_\_\_ "

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_



NOTES RELATING TO STATION NO. \_\_\_\_\_

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

Service to which attached, \_\_\_\_\_

Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

" of surface water, \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

" at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

" at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

" of bottom " \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

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Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

# RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

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Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

“ of surface water, \_\_\_\_\_

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“ at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

“ at depth of \_\_\_\_\_ fathoms, \_\_\_\_\_

“ at bottom, \_\_\_\_\_

Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

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Rain, \_\_\_\_\_

Direction of surface current, \_\_\_\_\_ ; force, \_\_\_\_\_

“ of bottom “ \_\_\_\_\_ ; force, \_\_\_\_\_

Name of vessel, \_\_\_\_\_

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Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_



NOTES RELATING TO STATION NO.

## RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

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Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

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Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

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State of sky, \_\_\_\_\_

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Name and position of observer, \_\_\_\_\_

NOTES RELATING TO STATION NO.

## RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

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Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

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Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

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Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

Rain, \_\_\_\_\_

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NOTES RELATING TO STATION NO.

# RECORD OF DREDGING,

## TEMPERATURE AND DENSITY.

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Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

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NOTES RELATING TO STATION NO.

# RECORD OF DREDGING.

## TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

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Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

“ of surface water, \_\_\_\_\_

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“ at bottom, \_\_\_\_\_

Density at surface, \_\_\_\_\_ temp., \_\_\_\_\_

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Number of salinometer, \_\_\_\_\_

Barometer reading, \_\_\_\_\_

State of sky, \_\_\_\_\_

Direction of wind, \_\_\_\_\_ ; force, \_\_\_\_\_

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Name of vessel, \_\_\_\_\_

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Name and rank of commanding officer, \_\_\_\_\_

Name and position of observer, \_\_\_\_\_



NOTES RELATING TO STATION NO.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. \_\_\_\_\_

Date, \_\_\_\_\_

Time of day, \_\_\_\_\_ ; of tide, \_\_\_\_\_

Locality, \_\_\_\_\_

Exact position, \_\_\_\_\_

Depth, \_\_\_\_\_

Nature of bottom, \_\_\_\_\_

Dredging instrument used, \_\_\_\_\_

Direction of drift, \_\_\_\_\_ ; distance, \_\_\_\_\_

Temperature of air, \_\_\_\_\_ therm. No., \_\_\_\_\_

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NOTES RELATING TO STATION NO.

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

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Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

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Density at surface, temp.,

" at depth of fathoms, "

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NOTES RELATING TO STATION NO. \_\_\_\_\_

# RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

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Exact position,

Depth,

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